

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,783,456 B2
APPLICATION NO. : 10/549319
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INVENTOR(S) : Satoshi Takahashi

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 18, line 1 (Claim 20, line 10) of the printed patent, insert --a frequency-- after "obtaining,
by".

Signed and Sealed this
Eighth Day of February, 2011



David J. Kappos
Director of the United States Patent and Trademark Office